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## State of Utah

DEPARTMENT OF NATURAL RESOURCES  
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December 11, 1991

Mr. Wendell Owen  
Co-Op Mining Company  
P.O. Box 1245  
Huntington, Utah 84528

Dear Mr. Owen:

Re: Review of the Hydrology Portion of the Bear Canyon Mine Plan, Bear Canyon Mine, Co-Op Mining Company, Folder #2, ACT/015/025, Emery County, Utah

The Hydrology section of the Bear Canyon Mine Plan has been reviewed and there are four items that require further clarification.

1) Page 7-32 has been updated to state that "flow meter(s) will be installed to monitor mine water discharges". If the meter(s) is presently in place then "will" is not the proper tense: if the meter(s) is not in place now, then it should be installed immediately. Additionally, if the meter or one of the meters is not a totalizing meter, then one needs to be added. Please clarify.

2) The mine water discharge is the issue in regards to culver C-8U. The latest maps do not shown **any** mine water being directed through this culvert. If C-8U is being used to divert mine water, then the plan needs to be updated to reflect this.

3) The sediment pond as-builts were addressed in a separate memo which was delivered to Mr. Kimly Mangum on December 5, 1991 (see attached).

4) In a recent letter to you, it was stated that the "Disturbed Area" Boundary was approved as shown on Plates 7-1A, B, C, and D. This is misleading because there are two types of disturbed areas shown on these plates. The actual "disturbed" area for bonding purposes is correct as shown. However, the disturbed and undisturbed area drainages are not correct as shown. The most expeditious way to correct these errors will be to discuss this situation with Mr. Mangum personally rather than relay this confusing matter in this letter. The boundaries in question will be

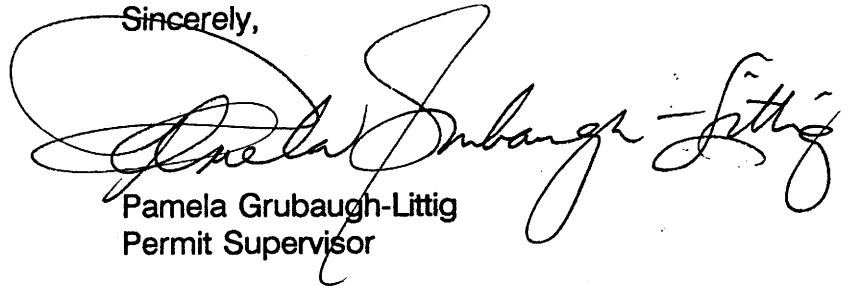
physically placed on the maps and agreed upon at that time. The relevant changes to the maps would be submitted after this meeting.

The other aspects of the plans, calculations, and text associated with this portion of the Bear Canyon Mine plan appear to be in order and are approved. Culverts C-8D and C-9D are contained within this approval and as such, they should be installed before weather prohibits installation until spring.

This approval does not relieve the operator of the need for any new plans as specified in recent pending NOV's or any pending changes to the approved plan.

Please submit all of the requested information by January 6, 1992, including the revised disturbed and undisturbed drainage maps. If you have any questions, please call me.

Sincerely,

A large, stylized handwritten signature in black ink, which appears to read "Pamela Grubaugh-Littig". The signature is written over the printed name and title.

Pamela Grubaugh-Littig  
Permit Supervisor

PGL/jbe

cc: Hugh Klein  
Kimly C. Mangum